Listing of the Claims:

This listing of claims is provided for the convenience of the Examiner. No claims have been amended in this Response.

 (Previously Amended) A method for operating a switch in a communication system according to a quality of service (QOS) metric, the method comprising:

receiving a data frame containing content;

comparing the content with a template;

determining whether at least a portion of the content of the data frame matches the template;

assigning a QOS score to the data frame based on the determination; and transmitting the data frame into a queue entry, wherein the queue entry is associated with a priority relative to other queue entries.

- (Original) The method of claim 1 further comprising: providing a plurality of template registers; and storing a template in each template register, wherein each template is associated with a particular QOS level.
- (Original) The method of claim 1 wherein the QOS score is based upon an FC-4 type of the data frame.
- (Original) The method of claim 1 wherein the QOS score is based upon an FC-4 type specific operation of the data frame.
- 5. (Original) The method of claim 1 wherein said assigning a QOS score to the data frame includes: establishing an initial score for the data based on the content of the data; and adjusting the initial scores with one or more alternative score components to determine one or more adjusted scores.

 (Original) A method for assigning a quality of service (QOS) level to frames for selective transmission through a switch, comprising:

for each frame:

receiving the frame;

evaluating a content of the frame;

assigning a QOS score to the frame; identifying a receiving port for the frame;

selecting a frame having a highest QOS score; and

transmitting said selected frame through the switch.

- (Original) The method of claim 6 wherein receiving the frame comprises receiving the frames in any order.
- (Original) The method of claim 7 wherein evaluating a content of said frame includes assigning an initial score to each frame using at least one quality of service value.
 - 9. (Original) The method of claim 6 further comprising:

providing a plurality of template registers; and

storing a template in each template register, wherein each template is associated with a particular QOS score.

- 10. (Original) The method of claim 9 wherein the step of evaluating the content of the frame comprises comparing the content to each template to determine a match.
- 11. (Original) The method of claim 10 wherein the QOS score is based upon an FC-4 type of the data frame.
- 12. (Original) The method of claim 10 wherein the QOS score is based upon an FC-4 type specific operation of the data frame.
 - 13. (Original) A fibre channel switch, comprising:
 - a plurality of input/output (I/O) ports;
- a switching element programmably coupling a first of the I/O ports with a second of the I/O ports;

- a first register coupled to the first I/O port and sized to hold at least one metadata field from data in the first I/O port:
 - a second register configured to hold a template;
- a comparator coupled to the first and second registers to determine when the metadata held in the first register matches the template held in the second register; and
- means for associating a quality of service value with the frame based upon the metadata matching the template held in the second register.
- 14. (Original) The switch of claim 13 wherein the at least one metadata field is associated with a port ID of the second I/O port.
- 15. (Original) The switch of claim 13 wherein the at least one metadata field is associated with an FC-4 frame type identifier.
- 16. (Original) The switch of claim 13 wherein the at least one metadata field corresponds to a destination port ID.
- 17. (Original) The switch of claim 13 further comprising a timer coupled to time how long each data frame is held in the I/O port.
- 18. (Original) The switch of claim 13 further comprising an application programming interface coupled to the means for associating a quality of service level to supply the quality of service value to external application software.
 - 19. (Original) A communication system, comprising:
- a plurality of network devices, each device having a node for communicating with external devices:
 - a switch having a plurality of input/output (I/O) ports;
- a communication path coupling each of the plurality of nodes to one of the 1/O ports of the switch;
- a switching element within the switch operable to programmably couple a selected source I/O port with a selected destination I/O port;
- a first register coupled to the selected source I/O port and sized to hold at least one metadata field from data in the selected source I/O port;

- a second register configured to hold a template;
- a comparator coupled to the first and second registers to determine when the metadata held in the first register matches the template held in the second register, and

means for associating a quality of service value with the frame based upon the metadata matching the template held in the second register.

- 20. (Original) The system of claim 19 wherein the first and second registers, the counter, and the comparator are located within the selected source I/O port.
- 21. (Original) The system of claim 19 wherein the first and second registers, the counter, and the comparator are located within the selected destination I/O port.
- 22. (Original) The system of claim 19 wherein the at least one metadata field is associated with a port ID of the selected destination I/O port.
- 23. (Original) The system of claim 19 wherein the at least one metadata field is an FC-4 frame type identifier.